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5	February	1971

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MEMORANDUM FOR: Chief, Technical Services Group, NPIC

ATTENTION

: Chief, PPS/TSG

SUBJECT

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: RED Monthly Report (January 1971)

Significant Items of Interest for January 1971:

1. Contact Lens Evaluation - ATB has prepared a status report on the technical feasibility of prescribing contact lenses to a select number of photointerpreters. Center management has been requested to grant permission for the next phase of the program to begin. 25X1A

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- 2. OSI, NPIC Stereo Acuity Research Program Nearly 100 IEG photointerpreters and 75 PSG personnel have served as subjects during January in the stereo acuity study. Data collection should be completed by 19 February. Preliminary data analysis is underway.
- Image Interpretation Research Program ATB/HFS and personnel held extensive discussions with TSG and IEG management and support personnel regarding the search improvement, training, and

exploitation of color photography aspects of the IIRP.

and ATB - Digital Image Manipulation - ATB personnel, plus several human factors consultants

DIM facility for a visited the thorough review of FY-71 research activities. Specific recommendations were developed governing the program for evaluation of the manipulated imagery.

5. Computer Center Noise Exposure and Criteria Determination -ATB personnel are coordinating efforts for OMS to establish an acceptable level of exposure to noise generated by NPIC's computer hardware. ESD personnel recently conducted a study of the noise levels and extent of personnel exposed to search noise, but the selection of exposure criteria, it is felt, lies properly with OMS.

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- 8. Coordination Visit to Naval Photographic Center ATB/EL personnel visited at NPC to discuss R&D activities of mutual interest.
- 9. Color Sensitometric Processor Fabrication of the Color Sensitometric Processor has begun at all appears on schedule.
- 10. <u>Viscous Development</u> Early results from the viscous development investigations yielded large adjacency effects with two of the three viscous agents under investigation; the third has yet to be tested.
- 11. Power Spectral Density completed the technical work approximately three months ahead of schedule.
 Image quality tests on operational imagery proved to be highly successful.
 A final report is currently being prepared.

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13. Low Contrast Imagery for Optics/ORD/DDS&T - Seven low contrast scenes of operational imagery were selected, printed, and forwarded to Ch/Optics/ORD/DDS&T. This imagery will be used to demonstrate the scatter light device and multiple reflection viewer developed by

A demonstration for RED personnel is schedule for

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Demonstration of OTF/MTF Defice of ATB attended a successful demonstration of 16. the National Bureau or Standards' OTF/MTF Device on 29 January 1971. of NBS performed the demonstration.

17. High Precision Stereo Comparator (HPSC) - All the electrical, mechanical, and optical fabrication work has been completed. The computer programming is presently being tested and modified to accommodate operational imagery. If no major problems arise, the operational suitaplant in mid-February. bility tests will be performed at the

Scan and Search PI Station - This program is running shear the optical subcontractor, expect of the planned schedule. to have the optics ready for delivery in July 1971.

1540 Light Table - Serial Number 1 table has passed the acceptance test in all respects except for the color of the light source. and the light source vendor are trying to resolve this problem. To date, 72 production 1540 light tables have been delivered to the Center.

- 20. Calibration Device for the HPSC. Several tests have been made on the HPSC at the plant. The repeatability of the calibration device is very good. Additional tests will be performed to obtain statistical data.
- 21. Basic Research in Precise Measurement Tests and demonstrations of an automatic pointing technique for mensuration have been encouraging. Indications are that this could be a very effective approach for future instruments.
- 22. Filar Eyepiece for the Zoom 240 The prototype instrument was delivered to the Center, but it was rejected by the monitor. Difficulty was encountered in clamping the instrument to the Zoom 240.
- 23. Vibration Tests RED/SDB personnel had several meetings with representatives of the Office of Logistics and in regard to the vibration tests being carried out in the vicinity of

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24. Logistics has had a new thermostat and mix box installed in the room housing the Target Indexing Device. Indications, thus far, are that the temperature control problem has been brought to within workable limits.

25. The final report on unconventional materials was distributed within NPIC.

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28. Work was commenced on the preparation of a briefing regarding the role of RSB in the planning and preparation for an NRT EOI system.

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experts in setting up a breadboard holograph reader at NPIC experts in setting up a breadboard holograph reader at NPIC image to be used for experimenting in viewing imagery for image has offered to do it at no cost.

30. Proposals and Contracts:

a. Color Processing Support and Color Technology Support PAR's for these programs with approved by Dir/NPIC.

The FY-71 Task for Photoscience Support was issued to

Two work orders were authorized: (1) training
in electron microscopy, and (2) evaluation of the Staley
Color Proofing Process.

d. The Color Equipment Investigation Program PAR has been briefed through C/TSG. The draft memorandum is presently under review by DC/RED/TSG.

e. demonstrated their proprietary image contrast doubling technique to RED. A proposal is under consideration to fund work in this area.

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f.	Proposals have been received from	six	contractors	s for
	a high intensity light source for	the	1540 light	tables.
	The proposals are presently being	eval	luated.	

Proposals have been solicited from contractors for an MTF Analyzer for

have been approved and are in the negotiation stage. The projects are the Dry Silver Program and the modification of the RIPP tables.

i. The PAR for the Lenticular Screen has been sent forward for approval.

j. Development Objectives for the Non-Computerized Information Handling Study have been approved by the C/PSG, and have been sent out for solicitation of proposals.

has filed suit on Contract k. contesting our termination for failure to perform.

- Requests for proposals have been submitted to industry for "Assessing the Quality of the State-of-the-Art of CRT's."
- Proposals have been received for an "Automated Coordinate Display System" and are under evaluation.

Meetings and Briefings: 31.

Two projects with the

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- briefed the ExDir/NPIC and the Group Chiefs Digital Image Manipulation on renewal of the contract.
- b. ATB personnel presented a comprehensive briefing on Branch activities to members of NPIC upper and middle management. The briefing was presented to small groups in several sessions.
- Extensive Center orientation Color Training briefings by IEG, PSG, and TSG representatives were held personnel. In addition, an on-site visit was made to to review the color photography research efforts being conducted under the Image Interpretation Research Program -- which has application to activities.

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25X1A	d. participated in the following activities:	
	(1) Attended several sessions on a special project directed by	25X1A
	(2) Received briefing on the preparation of an NPIC Training Manual and began initial groundwork for this publication.	
	(3) Attended the COMIREX MCGG Working Group meeting concerning the use of the remaining KH-4 missions for mapping	25X1D
25X1A	e. attended numerous meetings on and confirmed plans and preparations for the Center's exploitation evaluation which will begin early in March. Following this, he briefed the Director/NPIC and his Staff, PSG, and IAS on the program.	25X1A
25X1A	f. briefed the ODir/NPIC, the GroupsChiefs and	
25X1C	their deputies, the and OSR/CIA representatives on the This briefing included various special aspects such as data base requirements, the data transmission system, and the status of the program.	25X1C 25X1D
25X1A	g. participated in the following meetings:	25X1D
	(1)	
25X1A	(2) At regarding:	
25X1D	a) The scheduling of the sensors into the remaining KH-4 missions	25X1A 25X1D
25X1A	b) The Attitude Device Test Plan, where the interface requirements for exploitation were developed.	
	c) The stellar index camera calibration requirements.	25X1D
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P.I. work station R&D program briefing has been given to the Group Chiefs. It will be presented in the near future.

gave a briefing in i. which they reviewed some new ideas for development programs.

32. Personnel:

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has been assigned as interim Image Interpretation technical monitor of the (reassigned). Research Program, vice

> is now technical monitor of the Image Exploitation Support Program,

temporarily assigned to ATB/ as a research assistant, is currently participating in the Stereo Acuity Research Program along with three Dia personnel.

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Deputy Chief, Research & Engineering Division, TSG/NPIC

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